

RAW SEQUENCE LISTING

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Application Serial Number: 10/750,185
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/750,185

DATE: 07/11/2005
TIME: 15:59:33

Input Set : E:\MMI1100-2.txt
Output Set: N:\CRF4\07112005\J750185.raw

3 <110> APPLICANT: MMI GENOMICS, INC.
4 DeNISE, Sue K.
5 KERR, Richard
6 ROSENFELD, David
7 HOLM, Tom
8 BATES, Stephen
9 FANTIN, Dennis
11 <120> TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
13 <130> FILE REFERENCE: MM1100-2
15 <140> CURRENT APPLICATION NUMBER: US 10/750,185
16 <141> CURRENT FILING DATE: 2003-12-31
18 <150> PRIOR APPLICATION NUMBER: US 60/437,482
19 <151> PRIOR FILING DATE: 2002-12-31
21 <160> NUMBER OF SEQ ID NOS: 64922
23 <170> SOFTWARE: PatentIN version 3.1
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26 <211> LENGTH: 600
27 <212> TYPE: DNA
28 <213> ORGANISM: Bovine MMBT02545
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35 cggattaaag aaacaatcca atggtgacaa agaaatattt ataacataaa tcataattaa
37 atattagata aataaacata aaaataatgt cccaaaagga ttcccaagaa agacaattta
39 atggacaaag gcagggatat atatgaatgc ttaaatggtt tcatgaatat tgattagctr
41 gatTTTTT agtgtgtgag tgaaggagta gtatgctgag ggacaaaagt gatggaccca
43 aatctgagtt ttatggttt tcagataat acgcatttt gtttatttac acagagagat
45 attgtcctac taatatgata tctccaccag gcccattaaa acttatgtgc taacctctgt
47 ttcacacatt aacgacaaac aggacataac gcttctgcac gaaagggaaac acatactgag
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62 gcccatgact gtgtgccagc tacctcgaac atggggaaat cgtttctcat caattgttacc
64 ttttagcgca aaagtttctt aagctgtagg tgcagaagag attgtcccaag tctgacagat
66 ggagaaaactg aggcagagag gacgaaggc ttgtttcctc atcagagcta gagagcagay
68 gtgttcata ttttttttcc tcagactacg ttttccacc tgctactgta aggaccctca
70 ccaagtttat gacccttaaa atgtctttta tttcttaaaa tccaaaagta ataattaata
72 qccccaaqaa cttaqtgcca ctqcaqctqc tqaqqcccaqg aacqggtact cqgttaqqgac

ITS
(PS'67)

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89 gcttcattt	ttaatccct	ttgtgttcac	tactttatat	tgaaagtatt	cttcaggctg	180
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93 aaatataaaat	aggctttcta	ggctttaaaa	attattaaat	attcacagtt	cctaagtcty	300
95 gactcttct	gtggcagcca	ggcactactc	aggggaagag	atataaaagt	agctttaaaa	360
97 cagaaggaca	agatgctact	ttcttttagta	aaaaggtgaa	agaaatttta	agatgagatt	420
99 cagaaaaggg	gcaggttagg	ttctaaacta	agattctcaa	gttctaaaca	gaatttcgct	480
101 taaggacact	tatttattaa	aactccttt	ccttttccc	aatgaagcct	aataccctga	540
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116 caacacaaac	atggatctag	atggattatc	ataaaagcaaa	catctctgga	cccacccacag	180
118 gagtcaataa	ataacaacaca	ggagacatca	cagaagactg	ctgttagcct	cccaatcccg	240
120 aggcctctc	tctccagaa	aaggcagttc	ctaacaagg	tgtcttagtt	tctcttcccr	300
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124 tatgctaatt	aattcatcac	tccttttaat	gactctattt	taaaaagaga	ggtacctgck	420
126 tacattttt	aactgctcag	attttaatg	tctacttgtc	atattaacgt	gaattgtttt	480
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143 atagatagct	gtagatataa	gtatcagttc	cagttactcac	atggcatttt	ttttcctgtct	180
145 tgctttgaa	taaaaaaccta	cataatgaac	acgataatat	ggtaggattt	ggccatgt	240
147 attttccat	ttagactttt	ttcatttcatt	ttctgtatc	tgatctcatg	gtcttcttgm	300
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164	atgcagttat	tcaagaaaag	aggtggctca	gactcgctc	gcttcaccaa	ggatagaagg	180
166	ggagccgctt	aggaaggttt	taatttagct	gaaaatacaa	atggcaaaaat	caaaggtaat	240
168	tttttccctc	ctgctgtaag	aaaccagtg	acatctgtga	ggtggttga	ttcacatcar	300
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172	tttctaattgt	cttgatttcc	tatcaagaca	ttggccactt	ttctgcaggg	cctcaagaca	420
174	gtatattagat	gtcatgtcgg	aatgtgactc	caaggtctca	ggcgacacca	gttctaacta	480
176	gagcgcccc	aaacacagga	tgagacaatc	agcttggccg	gcccgcgtcac	ctgagagtca	540
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191	aaacactact	gtgaattact	gttggattgt	gggtgggtg	gtgggtcagg	aggaggagag	180
193	gagaggagac	ccctttaggg	gaatgtgtt	gggtttagca	ttgagaacta	ggatgtttct	240
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197	ctttgtaccc	tttagaaatt	aggctgatca	tcagcctcac	cttggaaatat	ctcttattcc	360
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223	gtgttgaata	tatggacttt	catgacgtt	cctaaacact	tggccttcct	ctcaacatcc	180
225	taaacattt	tttggat	ttcttggattt	gggatttata	tttctgttgc	atacacccaa	240
227	ggaaaggat	tcaggactgt	cctcaccac	ctctgtccat	ggctctttc	cacaaaaacr	300
229	cctattcctt	ctaggtcatc	cttttggtca	ctgccttccc	tgctggtcta	cccagctcct	360
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250	ccacacgtct cctctgggtt tgagaagaga tctaattccag gatctgactg ctcatgctcc	180
252	atcctcatgt ggacatttc tgagctgagg tgtgagcaaa gcatcagcta aaacatgcac	240
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256	gtgttgaat gggtggtcct tcctgactga tggccaccgt cagaggaaa tctctgaaag	360
258	cagataccag tttgagccat ggctctgccc getctggct gtgtgacctc agataagtca	420
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262	aggtgttcca gagaaggtagg gtttgcacac acctggcact tgtgctggc agcagaggat	540
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284	cctggcttca catgattcaa acatgcgtt ttgaagatgg attttcctta aaaaaagatt	240
286	gatggtgat gccgggctt gggtgccatt tattttt aatattttt agacttgccr	300
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290	gtgtttccat cgatggcct tgggttatca ttgctgctga ccagatgcag tccctccat	420
292	ttacagtata gaagacaccc ccctccgtt aaggaggac gtttaattt tgaataattt	480
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316	ccaccatggg gttccctcg cccggacgct cgatcttcaa aacttcatcc acgaagacaa	240
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320	gcccaagtctc accgatgacc cccaaagacc cggccacttg gacatgttct cagagccat	360
322	gaacagctt gattttaattt ataysgtaga agaggtttc gyggggccct atgaactcgc	420
324	ctagctacta ccctcgmaaa ttcaagtctt accacatcg gaacgaggtg aaaacaaata	480
326	agccagagtt tcagtagtgc atgcatttc gagaataatt tttaacctt ggcaggtgag	540
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 341 agcttaaatc agaaaacccs ttcttaata cagagtgaga agtggaatct ctgcttagtg 180
 343 tgacatgaaa aatccagtct ctgtgagttt gctatttagag taagaggat tcgttagtg 240
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 349 ctcttytgtt tgtttttctt ggtgctgaga gtcacaggaa tagatctgcc tggttgaatc 420
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 353 aatcatctgc tggctgaaac atccraggac tcagtagatc gtctgacaga tatgtggaca 540
 355 ggagacatcc agtaaggatg cacagtggcc ggtgatcaact cgaggtgtgt gacactcttg 600
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 368 acacagaggg tgagagaccc tctctgcgca tgccgtctga tggcagagg ccagtgaccc 180
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 374 gtgcggagga tgcgtccgt cccctgtgga gtgcggctc agggcctggg cctaggtgca 360
 376 tctgcaccca gacagcatttgc tttcattatc ttatgtatcc gtctgtggct gtgtcaggcc 420
 378 tcagctgcgg cacgcagagt ccaggcgtgc gggcttctcc cttgtcgagg tgtgcaggat 480
 380 cagtagctgc gaccacagg ctgagctgtc ccgcggcagg tggactcag ctccccaagc 540
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 402 actataggcc taggaggcgt accagctggg gagagcggat ggcccactga aaagagcatc 240
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 410 tgtataattt tattctctgtc actcaggata tgttcagaaa ataattacta ttgaatttac 480
 412 tgcattgaca gtcttcart tctactacca agactgtttg catttaagct aagtttcctc 540
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 417 <210> SEQ ID NO: 15

**RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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 Seq#:14; N Pos. 103,104,105,106,107,108,109,110,111,112,113,114,115,116,117
 Seq#:14; N Pos. 118,119,120,121,122,123,124,125,126,127,128,129,130,131,132
 Seq#:14; N Pos. 133,134,135,136,137,138,139,140,141,142,143,144,145,146,147
 Seq#:14; N Pos. 148,149,150,151,152,153,154,155,156,157,158,159,160,161,162
 Seq#:14; N Pos. 163
 Seq#:19; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
 Seq#:19; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
 Seq#:19; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
 Seq#:19; N Pos. 64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
 Seq#:19; N Pos. 84,85,86,87
 Seq#:20; N Pos. 1
 Seq#:27; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
 Seq#:27; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
 Seq#:27; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
 Seq#:27; N Pos. 64,65,66,67,68,69,70
 Seq#:33; N Pos. 1,2,3
 Seq#:35; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
 Seq#:35; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
 Seq#:35; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
 Seq#:35; N Pos. 64,65,66,67,68,69,70,71,72,73,74,75
 Seq#:37; N Pos. 1,2,2
 Seq#:38; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
 Seq#:38; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
 Seq#:38; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
 Seq#:38; N Pos. 64

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/11/2005
PATENT APPLICATION: US/10/750,185 TIME: 15:59:34

Input Set : E:\MMI1100-2.txt
Output Set: N:\CRF4\07112005\J750185.raw

Seq#:44; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:44; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
Seq#:44; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
Seq#:44; N Pos. 64
Seq#:46; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:46; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
Seq#:46; N Pos. 44,45,46,47,48,49,50

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/750,185

DATE: 07/11/2005
TIME: 15:59:34

Input Set : E:\MMI1100-2.txt
Output Set: N:\CRF4\07112005\J750185.raw

L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
M:341 Repeated in SeqNo=14
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
M:341 Repeated in SeqNo=19
L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
M:341 Repeated in SeqNo=35
L:1047 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
M:341 Repeated in SeqNo=38
L:1246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
M:341 Repeated in SeqNo=44
L:1305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
M:341 Repeated in SeqNo=55
L:1727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
M:341 Repeated in SeqNo=66
L:2244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:2276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:2576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
L:2880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0
M:341 Repeated in SeqNo=103
L:2993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:0
L:3160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0
L:4216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:0
M:341 Repeated in SeqNo=152
L:4626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:167 after pos.:0
M:341 Repeated in SeqNo=167
L:4874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176 after pos.:0
M:341 Repeated in SeqNo=176
L:5041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:0
M:341 Repeated in SeqNo=182
L:5073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183 after pos.:0
M:341 Repeated in SeqNo=183
L:5348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193 after pos.:0
L:5679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0
M:341 Repeated in SeqNo=205
L:5873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0

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DATE: 07/11/2005
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Input Set : E:\MMI1100-2.txt
Output Set: N:\CRF4\07112005\J750185.raw

L:6202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224 after pos.:0
L:6477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0